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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,306	11/04/2003	Hea Suk Jung	CU-3424 VE	5038
26530	7590 10/21/2005		EXAM	INER
LADAS & PARRY LLP			NGUYEN, LINH M	
224 SOUTH MICHIGAN AVENUE SUITE 1600			ART UNIT	PAPER NUMBER
CHICAGO, II	L 60604		2816	
			DATE MAILED: 10/21/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/701,306	JUNG, HEA SUK				
Office Action Summary	Examiner	Art Unit				
	Linh M. Nguyen	2816				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may vill apply and will expire SIX (6) Mo cause the application to become	NICATION. a reply be timely filed ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>07 Secondary</u>	Responsive to communication(s) filed on <u>07 September 2005</u> .					
,	,					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 14 and 15 is/are pending in the applic 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 14 and 15 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	vn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on <u>04 November 2003</u> is/ar Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the order of the correction of the correction of the order of the correction of the correction of the order of the correction of the corr	re: a)⊠ accepted or b)ldrawing(s) be held in abeyon is required if the drawir	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No	v Summary (PTO-413) b(s)/Mail Date f Informal Patent Application (PTO-152) 				

Application/Control Number: 10/701,306

Art Unit: 2816

DETAILED ACTION

Claims 14-15 are presented in the instant application.

RCE Response

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after advisory action. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 09/07/2005 has been entered.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujieda et al. (U.S. Patent No. 6,181,174) in view of Muraki et al. (U.S. Patent No. 6,360,328).

With respect to claim 14, Fujieda et al. discloses, in Fig. 27, a synchronous memory device for synchronization of an external input clock [10] with an internal [output from 46A] input clock comprising a delay locked loop (DLL) having a clock divider [36,38] wherein the clock divider outputs a first clock signal and a second clock signal.

Fujieda fails to explicitly disclose that the clock divider outputs a first clock signal when the synchronous memory device is in a power down condition and a second clock signal when

the synchronous memory device is in a non-power down condition and wherein a frequency of the first clock signal is lower than that of the second clock signal.

Muraki et al. discloses, in column 1, lines 41 to 45, that one of various means for power down modes is to reduce the frequency of the clock.

It would have been obvious to one of ordinary skill in the art at the time of the invention to establish a power down mode by selecting a low frequency for the clock via the frequency dividing ratio setting part [53] in the circuit of Fujieda et al. to reduce wasteful power consumption since such configuration for the stated purpose has been a well known practice as evidenced by the teachings of Muraki et al. (see Muraki et al., col. 1, lines 41-45).

With respect to claim 15, the combined teaching of Fujieda et al. and Muraki et al., discloses that the frequency of the second clock signal is 2M when the frequency of the first clock signal is M (since 53 selects the dividing ratio for divider (36,38), dividing ratio can be selected so that the first clock signal frequency (power down mode) is M and the second clock signal frequency is 2M (non-power down).

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh M. Nguyen whose telephone number is (571) 272-1749.

The examiner can normally be reached on Alternate Mon, Tuesday - Friday from 7:00 to 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LMN

LINHMY NGUYEN
PRIMARY EXAMINER

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